

### ABSTRACT

A linear guide with a guide rail (25), on which a guide carriage (26) is supported for movement longitudinally, and with a drive to cause the longitudinal movement of the guide carriage (26), which is constructed as an electric motor with a motor component arranged on the guide rail (25) and a motor element arranged on the guide carriage (26). A distance-measuring system is allocated to the linear guide, which has a measuring strip and a measuring head (30) which is movable in relation to the measuring strip adjacent to the guide carriage (26) or the guide rail (25) extending parallel to the guide rail (25). The distance-measuring system is assigned an acceleration sensor operating with an eddy current sheet and an exciter block (28) partially surrounding it.